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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)  Sheet 1 of 2	<b>Complete if Known</b>	
	Application Number	10/051,752
	Filing Date	January 16, 2002
	First named Inventor	John D. Puskas
	Group Art Unit	3766
	Examiner name	Carl Hernandez Layno
	Attorney Docket Number	065071-9052-04

## U.S. Patent Documents

Examiner Initials	U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
/CL/	3,937,226	Funke	2/10/1976
	4,088,140	Fritsche	2/15/1977
	4,303,075	Heilman et al.	12/1/1981
	4,332,259	McCorkle, Jr.	6/1/1982
	4,354,497	Kahn	10/19/1982
	4,458,677	McCorkle, Jr.	7/10/1984
	4,548,203	Tacker, Jr. et al.	10/22/1985
	4,928,688	Mower	5/29/1990
	4,929,688	Allen et al.	5/29/1990
	5,174,289	Cohen	12/29/1992
	5,267,560	Cohen	12/7/1993
	5,501,702	Plicchi et al.	3/26/1996
	5,514,161	Limousin	5/7/1996
	5,584,867	Limousin	12/17/1996
	5,674,259	Gray	10/7/1997
	5,720,768	Verboven-Nelissen	2/24/1998
	5,792,203	Schroeppel	8/11/1998
	5,797,970	Pouvreau	8/25/1998
	5,902,324	Thompson et al.	5/11/1999
	5,977,408	Levin et al.	11/2/1999
	5,998,386	Feldman	12/7/1999
	6,141,590	Renirie et al.	10/31/2000
/CL/	6,221,851	Feldman	4/2/2001

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Examiner Initials	U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
/CL/	6,381,499	Taylor et al.	4/30/2002
↓	6,537,540	Burnstein et al.	3/25/2003
↓	6,572,895	Smith et al.	6/3/2003
↓	6,589,954	Mavunkel et al.	7/8/2003
↓	2001/0049543	Kroll	12/6/2001
↓	2002/072782	Osorio, et al.	6/13/2002
/CL/	2003/045909	Gross et al.	3/6/2003

## FOREIGN PATENT DOCUMENTS

Examiner Initials	Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract
/CL/	WO	01/89526	Tracey	11/29/2001		

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Form 1449B/PTO				<b>Complete if Known</b>	
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Sheet	1	of	3	Attorney Docket Number	065071-9052-04

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc. ), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
/CL/		BESEDOVSKY, H., et al., "Immunoregulatory Feedback Between Interleukin-1 and Glucocorticoid Hormones," Science, Vol. 233, No. 4764, pp. 652-654, 1986.
		BOROVIKOVA, L.V., et al., "Role of Vagus Nerve Signaling in CNI-1493-mediated Suppression of Acute Inflammation," Autonomic Neuroscience: Basic and Clinical, Vol. 85, pp. 141-147, 2000.
		BOROVIKOVA, L.V., et al., "Vagus Nerve Stimulation Attenuates the Systemic Inflammatory Response to Endotoxin," Nature, Vol. 405, 2000.
		BRISTOW, M., "The Adrenergic Nervous System In Heart Failure," The New Eng. J. of Med., Vol. 311, No. 13, pp. 850-851, 1984.
		DIWAN, A., et al., "Inflammatory Mediators and the Failing Heart: A Translational Approach," Cur. Mol. Med., Vol. 3, No. 2, pp. 161-182, 2003.
		FINKEL, M., et al., "Negative Inotropic Effects of Cytokines on the Heart Mediated by Nitric Oxide," Science, Vol. 257, pp. 387-389, 1992.
		FLESHNER, M., et al., "Thermogenic and Corticosterone Responses to Intravenous Cytokines (IL-1 $\beta$ and TNF- $\alpha$ ) are Attenuated by Subdiaphragmatic Vagotomy," J. of Neuroimmunology, Vol. 86, pp. 134-141, 1998.
		GAYKEMA, R., et al., "Subdiaphragmatic Vagotomy Suppresses Endotoxin-Induced Activation of Hypothalamic Corticotropin-releasing Hormone Neurons and ACTH Secretion," Endocrinology, Vol. 136, No. 10, pp. 4717-4720, 1995.
/CL/		GUARINI, S., et al., "Efferent Vagal Fibre Stimulation Blunts Nuclear Factor - $\kappa$ B Activation and Protects Against Hypovolemic Hemorrhagic Shock," 2003.

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**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

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/CL/		GULICK, T., et al., "Interleukin 1 and Tumor Necrosis Factor Inhibit Cardiac Myocyte $\beta$ -adrenergic Responsiveness," Proc. Natl. Acad. Sci. USA, Vol. 86, pp. 6753-6757, Sept. 1989.
		KROWN, K., et al. "Tumor Necrosis Factor Alpha-Induced Apoptosis in Cardiac Myocytes: Involvement of the Sphingolipid Signaling Cascade in Cardiac Cell Death," J. Clin. Invest., Vol. 98, No. 12, 1996.
		LI, Y. Y., et al., "Myocardial Extracellular Matrix Remodeling in Transgenic Mice Overexpressing Tumor Necrosis Factor $\alpha$ can be Modulated by Anti-tumor Necrosis Factor $\alpha$ Therapy," PNAS, Vol. 97, No. 23, pp. 12746-12751, 2000.
		LISMAN, K., et al., "The Role of Tumor Necrosis Factor Alpha Blockade in the Treatment of Congestive Heart Failure," CHF, Sept./Oct., 2002.
		MANN, D., et al., "New Therapeutics for Chronic Heart Failure," Annu. Rev. Med., Vol. 53, pp. 59-74, 2002.
		MANN, D., "Mechanisms and Models in Heart Failure - A Combinatorial Approach," Circulation, Vol. 100, pp. 999-1008, 1999.
		McGREGOR, E., et al., "Proteomics of Heart Disease," Human Molecular Genetics, Vol. 12, Review Issue 2, pp. R135-R144, 2003.
↓		SHARMA, R, et al., "The Importance of Tumor Necrosis Facator and Lipoproteins in the Pathogenesis of Chronic Heart Failure," Heart Failure Monitor, Vol. 2, No. 2, pp. 42-47, 2001.
/CL/		TAN, L.B., et al., "Cardiac Myocyte Necrosis Induced by Antiotensin II," J. Am. Heart Assoc., Vol. 69, pp. 1185-1195, 1991.

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/CL/		WATKINS, L., et al., "Implications of Immune-to-Brain Communication for Sickness and Pain," Proc. Natl. Acad. Sci. USA, Vol. 96, pp. 7710-7713, July 1999.
/CL/		YEH, Shing-Shing, et al., "Geriatric Cachexia: The Role of Cytokines <sup>1,2</sup> ," Am. J Clin. Nutr., Vol. 70, pp. 183-97, 1999.
/CL/		YOKOYAMA, T., et al., "Cellular Basis for the Negative Inotropic Effects of Tumor Necrosis Factor - $\alpha$ in the Adult Mammalian Heart," The Journal of Clinical Investigation, Vol. 92, pp. 2303-2312, Nov. 1993.
/CL/		YOKOYAMA, T., et al., "Tumor Necrosis Factor - $\alpha$ Provokes a Hypertrophic Growth Response in Adult Cardiac Myocytes," Circulation, Vol. 95, pp. 1247-1252, 1997.

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